

NORTHEASTERN REGION FARM COMPUTER USAGE AND OWNERSHIP REPORT



NATIONAL AGRICULTURAL STATISTICS SERVICE

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Special Note

The questions for the Farm Computer Usage and Ownership questionnaire have changed since the last publication in 2019 to reflect modern internet access and usage. Therefore, there may not be direct comparisons between certain data points. Some changes included reporting multiple types of internet access, consolidating redundant questions, and the addition of a precision agriculture question.

Farm Computer Usage and Ownership Highlights

Nationally, 82 percent of farms reported having access to the internet with 98 percent paying for access. In 2021, 29 percent of farms used the internet to purchase agricultural inputs, which was an increase of 5 percent from 2019. Additionally, 21 percent of farms used the internet to market agricultural activities, which was an increase of 2 percent from 2019. Farms which conducted business with non-agricultural websites in 2021 decreased by 6 percent to 47 percent.

In 2021, 50 percent of internet connected farms utilized a broadband connection while 70 percent of internet connected farms had access through a cellular data plan. Additionally, 67 percent of farms had a desktop or laptop computer while 77 percent of farms had a smart phone.

Farm Computer Usage - Northeastern States and United States: 2019 and 2021

	Farms							
State	Own or use desktop or laptop computer 1		Own or use smart phone	Own or use a tablet or other portable wireless computer	Own or use some other type of computer			
	2019	2021	2021	2021	2021			
	(percent)	(percent)	(percent)	(percent)	(percent)			
Maryland ²	71 84 80 77 62	70 88 84 69 52	62 70 72 69 53	17 46 33 41 20	2 5 (Z) (Z) (Z)			
United States 4	69	67	77	29	2			

⁽Z) Less than half of the unit shown.

¹ 2019 values are not directly comparable to 2021.

² Includes Delaware and Maryland.

³ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

⁴ Excludes Alaska and Hawaii.

Farm Internet Access - Northeastern States and United States: 2019 and 2021

	Farms						
State	With interr	net access	Internet access by paying a cell phone company or internet service provider	Internet access without paying a cell phone company or internet service provider			
	2019	2021	2021	2021			
	(percent)	(percent)	(percent)	(percent)			
Maryland ¹	77	80	99	1			
New Hampshire ²	94	97	93	7			
New Jersey	91	91	100	(Z)			
New York	81	81	92	8			
Pennsylvania	64	64	99	1			
United States ³	75	82	98	2			

⁽Z) Less than half of the unit shown.

Use of Internet - Northeastern States and United States: 2019 and 2021

[Agricultural inputs include seed, fertilizer, chemicals, veterinarian supplies, feed, machinery, replacement parts, farm supplies, office equipment, etc. Agricultural marketing activities include direct sales of commodities, on-line crop and livestock auctions, on-line market advisory services, commodity price tracking, etc.]

	Farms					
State	Purchase a inpu over in	uts	Conduct agricultural marketing activities over internet			
	2019	2019 2021		2021		
	(percent)	(percent)	(percent)	(percent)		
Maryland ¹	36	32	31	35		
New Hampshire ²	41	45	33	30		
New Jersey New York	44 42	35 46	27 24	19 27		
Pennsylvania	24	28	14	18		
United States 3	24	29	19	21		

¹ Includes Delaware and Maryland.

Internet Access of Reports, Services, and Websites - Northeastern States and United States: 2019 and 2021

[Reference period for access and usage of USDA reports, research information, and services is the last 12 months prior to June 1 of survey year]

	Farms							
State	Access USDA/NASS reports over internet		Access other USDA reports/services over internet		Access other Federal government websites over internet			
	2019	2021	2019	2021	2019	2021		
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)		
Maryland ¹	11 20 9 9	16 25 14 9 11	28 34 18 16 15	30 31 26 25 18	26 30 33 27 14	26 25 31 27 17		
United States 3	12	13	20	22	21	21		

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Conducting Business on the Internet - Northeastern States and United States: 2019 and 2021

	Farms							
State	Conduct business with any USDA website		Conduct business with any other Federal government website		Conduct business with any non-agricultural website			
	2019	2021	2019	2021	2019	2021		
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)		
Maryland ¹	14 16 7 12 10	15 23 11 17 12	12 10 11 17 7	18 10 14 13 9	51 62 64 60 41	43 53 51 51 33		
United States ³	11	16	9	12	53	47		

¹ Includes Delaware and Maryland.

Methods of Internet Access - Northeastern States and United States: 2021

[Various methods of internet access for those operators who have access to the Internet. May not add to 100% due to operators with multiple types of internet access]

	Farms						
State	Dialup	Broadband (DSL, cable, fiber optic)	Cellular	Satellite	Other		
	2021						
	(percent)	(percent)	(percent)	(percent)	(percent)		
Maryland ¹	1 2 (Z) (Z) 3	50 72 68 63 61	63 81 83 58 49	24 11 14 11 5	3 1 (Z) (Z) 3		
United States 3	2	50	70	19	2		

⁽Z) Less than half of the unit shown.

Precision Agriculture Practices

Beginning in 2021, data were collected for precision agriculture practices with the question: "In the last 12 months, did this farm or ranch use precision agriculture practices to manage crops or livestock? This would include the use of global positioning (GPS) guidance systems, GPS yield monitoring and soil mapping, variable rate input applications, use of drones for scouting fields or monitoring livestock, electronic tagging, precision feeding, robotic milking, etc.." Results are presented in the following table.

Farm Precision Agriculture Practices – Northeastern States and United States: 2021

	Farms Using precision agriculture practices to manage crops or livestock		
State			
	2021		
	(percent)		
Maryland ¹ New Hampshire ² New Jersey New York Pennsylvania	27 24 27 26 20		
United States ³	25		

¹ Includes Delaware and Maryland.

² Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

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Farm Numbers

To help equate the percentages published in this report to actual farm counts, a table showing "Number of Farms by States and United States" from the February 2021 NASS publication *Farms*, *Land in Farms* is included below. A farm is "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the year."

Number of Farms - Northeastern States and United States: 2019 and 2020

[2021 number of farms not available until February 2022]

Ctata	Farms			
State	2019	2020		
	(number)	(number)		
Delaware Maryland New Hampshire ¹ New Jersey New York Pennsylvania	2,300 12,400 32,300 9,900 33,400 52,700	2,300 12,400 32,300 9,900 33,400 52,700		
United States ²	2,015,050	2,010,650		

¹ Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

For the complete "Farm Computer Usage and Ownership" report, go to: https://usda.library.cornell.edu/concern/publications/h128nd689

The "Farm Computer Usage and Ownership" report and all other NASS reports are available online at www.nass.usda.gov.

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² Excludes Alaska and Hawaii.